

at least one liquid to space radiator heat to cool primary coolant received from the cold plate through the plenum and circulating pump.

all auxiliary components of a cooling system to be used in the system like at least; valves, sensors, pipes, gauges and any other components.

- 5 8. The cooling system assembly of claim 7, said cooling system further comprising ;
at least one cold plate.
9. The cooling system assembly of claim 7, said cooling system further comprising ;
at least one electronic module thermally attached to the cold plate.

10.

ABSTRACT OF THE DISCLOSURE

High Performance cooling systems for cooling a heat source is disclosed. The cooling
15 systems can be air cooling system, liquid cooling system, or space radiation cooling system. Air cooling system includes at least high performance cold plate or cold plates, plenum, liquid pump, and liquid to air heat exchanger. Liquid cooling system includes at least high performance cold plate or cold plates, plenum, liquid pump, and liquid to liquid heat exchanger. Space radiation cooling system includes at least high performance cold
20 plate or cold plates, plenum, liquid pump, and space radiator. Several coolant fluids are available and can be used as a primary system coolant depending on the application.

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